

**Olusoji A. Afuwape**  
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**Education:**

*Bachelor of Science in Bioengineering*, Dec 2009  
University of Illinois at Chicago (UIC)  
Cumulative GPA: 3.81/4.0  
Magna Cum Laude

**Course Work:**

Neuroscience, Neural Engineering, Genetics, Modeling Data and Systems,  
Bioinstrumentation, Biological Transport Phenomena.

**Experience:**

**National Institute of Health Intramural Postbaccalaureate Program**

2/10 – Present *Postbaccalaureate Research Fellow*

- Investigating face recognition in macaque monkeys using electrophysiological recordings from isolated single neurons in the visual cortex.

**Research Experience for Undergraduates at Johns Hopkins University**

6/09 – 8/09 *Research Assistant*

- Investigated the function of potential molecular components in active DNA demethylation in human neuroblastoma cells using artificially methylated green fluorescent protein as a reporter. DNA demethylation was quantified using a fluorescence-activated cell sorting (FACS) machine and protein expression was confirmed using western blot.

**Upward Bound Program at Columbia College**

8/08 – 6/09 *Academic Assistant*

- Assisted high school students with course work
- Went to public elementary schools to recruit students for the program
- Wrote reviews on students' progress

**Research Experience for Undergraduates at University of Virginia**

6/08 – 8/08 *Research Assistant*

- Searched for the optimal biodegradable polymer to coat bone for novel drug delivery to aid bone allograft incorporation and promote vascularization for long-term viability. Using a microCT, polymers were rated based on thickness of coating, porosity of bone after coating and solubility of drug within polymer.

**Gabriel Environmental Services**

12/07 – 6/08 *Laboratory Technician*

- Tested solid and liquid samples for SVOC, PCB and PNA
- Reported final results
- Preserved solid samples for VOC extraction
- Calibrated pH meters and mass balances

**Presentations:****National Institute of Mental Health 14th Annual DIRP Scientific Retreat**

Sep. 2010: **Poster Presentation**

*Probing Stability of Visual Representations with Chronic Multielectrode Recordings*

Olusoji Afuwape, BS, David B.T. McMahon, PhD, Igor V. Bondar, PhD,  
David A. Leopold, PhD.

**Annual Biomedical Research Conference for Minority Students (ABRCMS)**

Nov. 2009: **Poster Presentation**

*Functional Investigation of Potential Molecular Components in Active DNA Demethylation.*

Olusoji Afuwape, Junjie Guo, Guo-Li Ming MD/PhD.

**Summer Research Experience Collaborative Poster Session at Johns Hopkins University**

Aug. 2009: **Poster Presentation**

*Functional Investigation of Potential Molecular Components in Active DNA Demethylation.*

Olusoji Afuwape, Junjie Guo, Guo-Li Ming MD/PhD.

**University of Illinois at Chicago College of Engineering Expo**

Apr. 2009: **Poster Presentation**

*Development of Stem Cell Delivery System for Traumatic Brain Injury.*

Olusoji Afuwape, Christopher Nagelli, Peter Ifft.

**Summer Research Experience at University of Virginia**

Aug. 2008: **Oral Presentation**

*Development of Bioactive Coatings to Enhance Vascularization and Long-Term Viability of Load-Bearing Bone Allografts.*

Olusoji Afuwape, Caren Petrie-Aronin, PhD, Yusuf Khan, MD/PhD,  
Edward Botchwey, PhD.

**Skills:** Microsoft Word, Excel, Power Point, MatLab, C++ and Google Sketch. Fluent and Proficient in Yoruba and working knowledge of French.

**Honors & Awards**

- Medical Applications Design Runner up for UIC College of Engineering Expo (2009)
- Most Active Member of NSBE UIC Chapter (2009)
- Member of Tau Beta Pi and Golden Key Honor Society (2008, 2009)
- NACME and MLK Scholar (2008, 2009)
- ASM Chicago Chapter Annual Award Winner (2008)
- UIC Men's Intramural Soccer Champions (2008)
- Honor Roll Student (2007, 2008, 2009)
- Member of National Dean's List (2007, 2008, 2009)
- Certified College Reading and Learning Association Tutor (2006)